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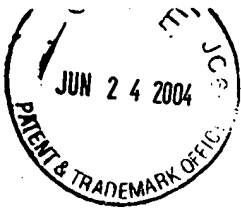
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OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS ...
Applicant: Pourdeyhimi
Atty Docket: 297/180

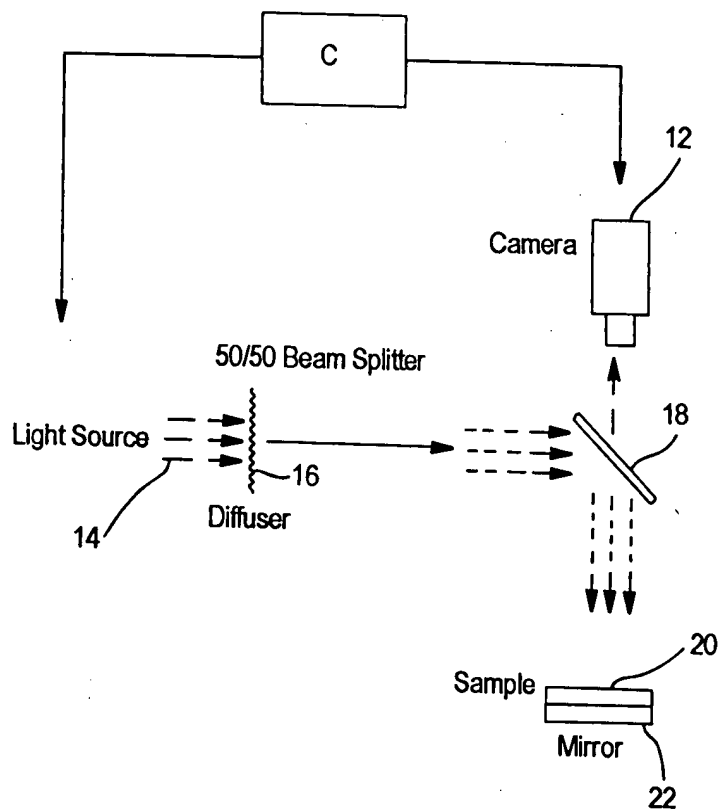


FIG. 1A

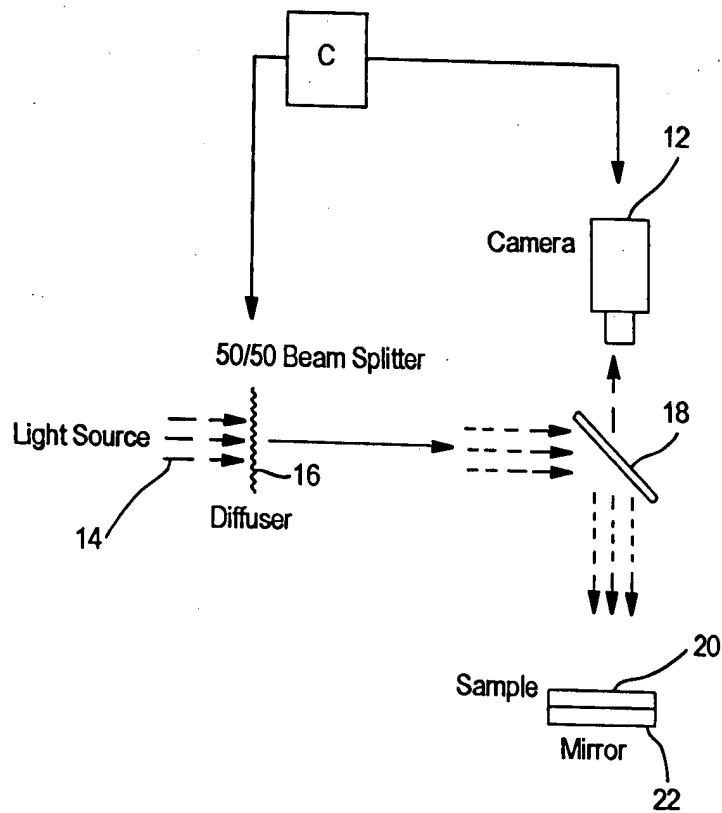


FIG. 1B

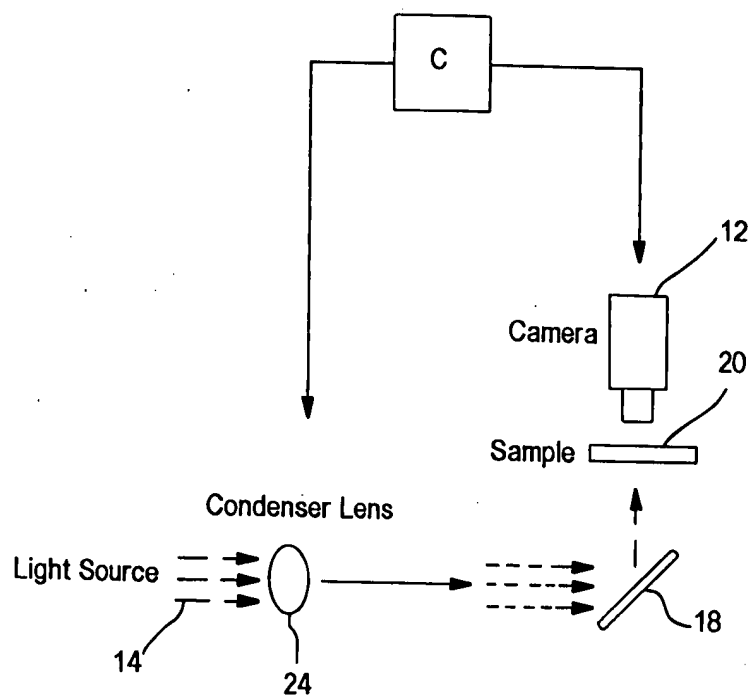


FIG. 1C

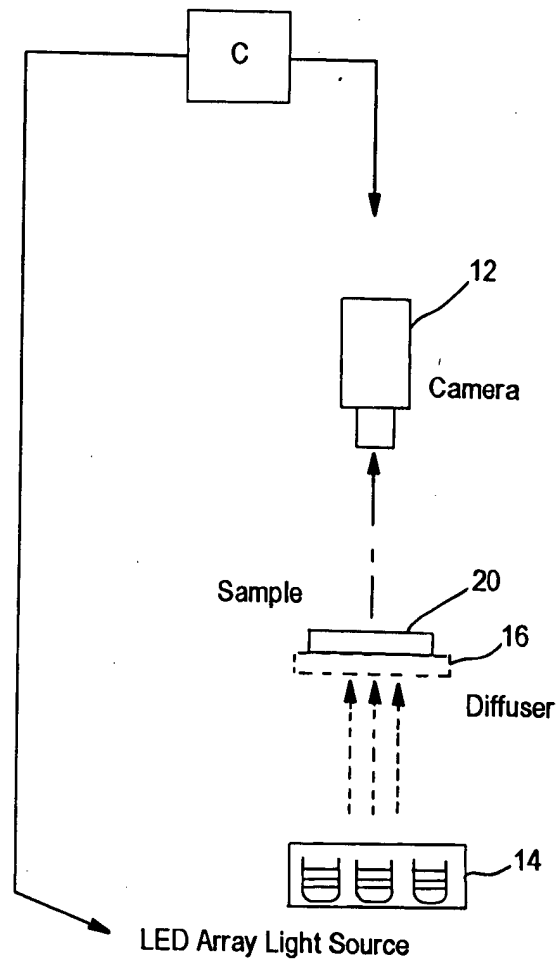


FIG. 1D

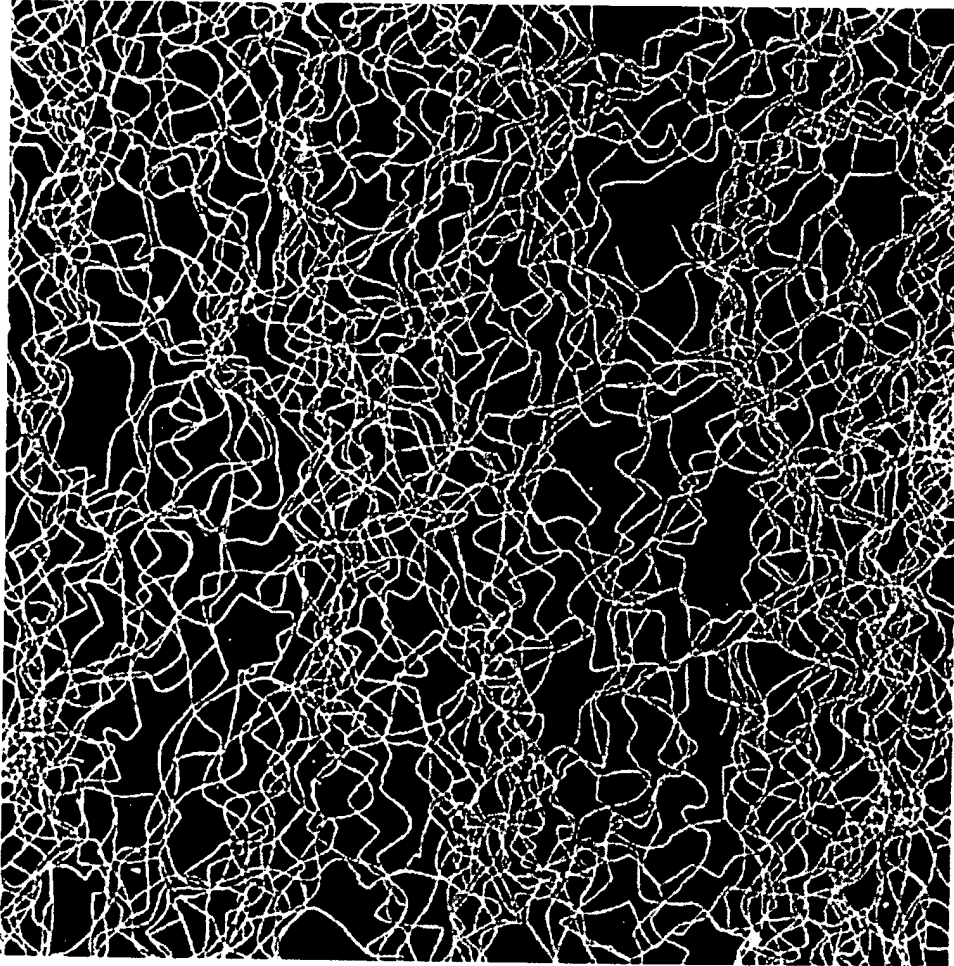


FIG. 2

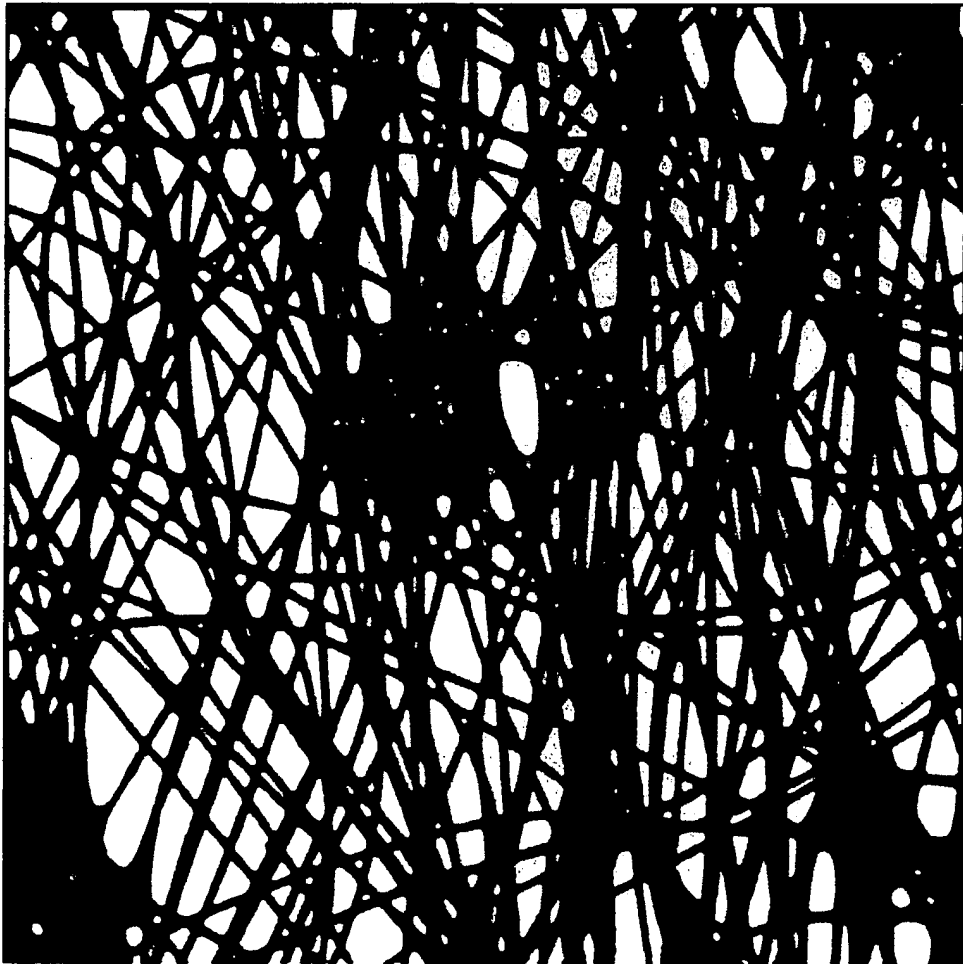


FIG. 3

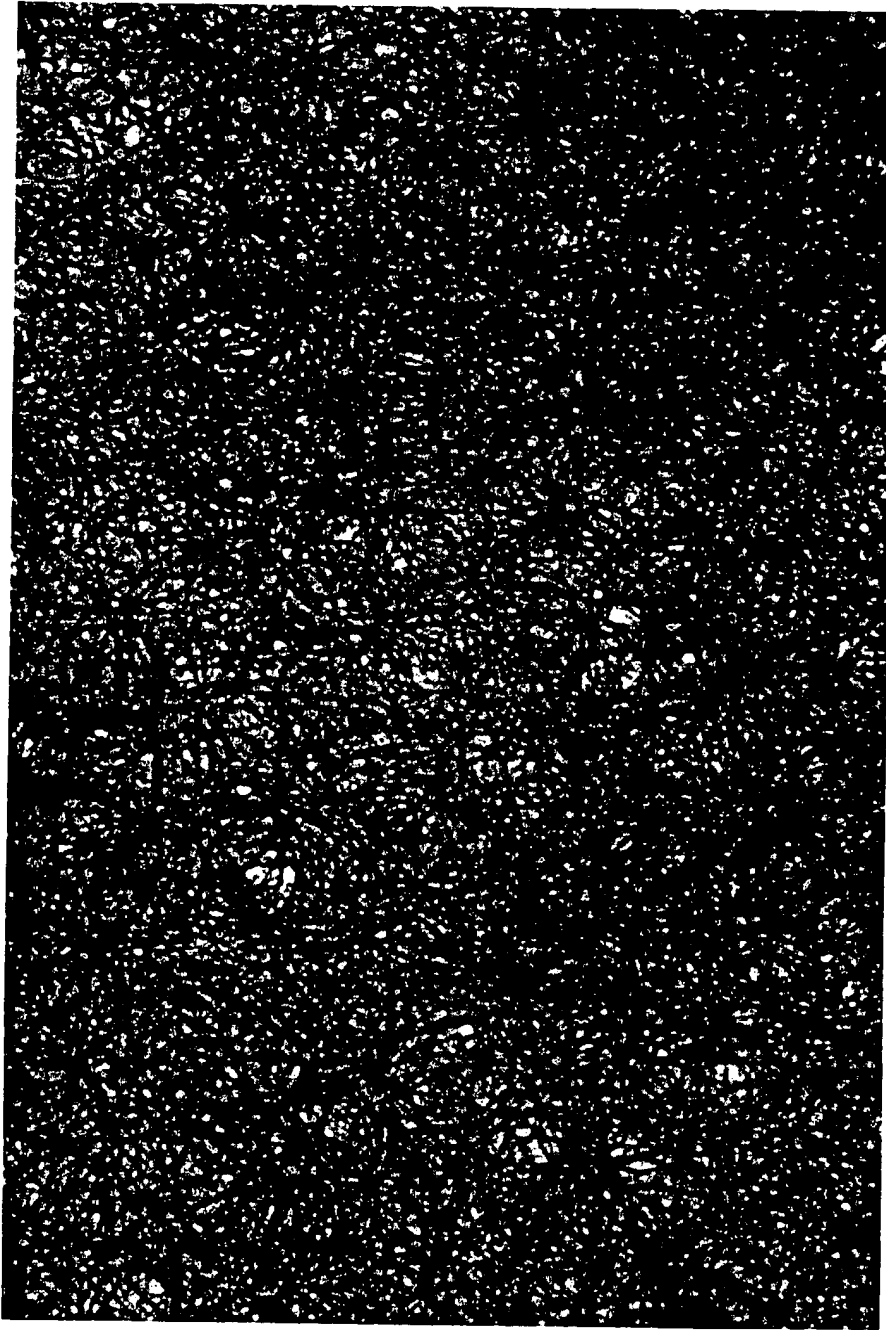
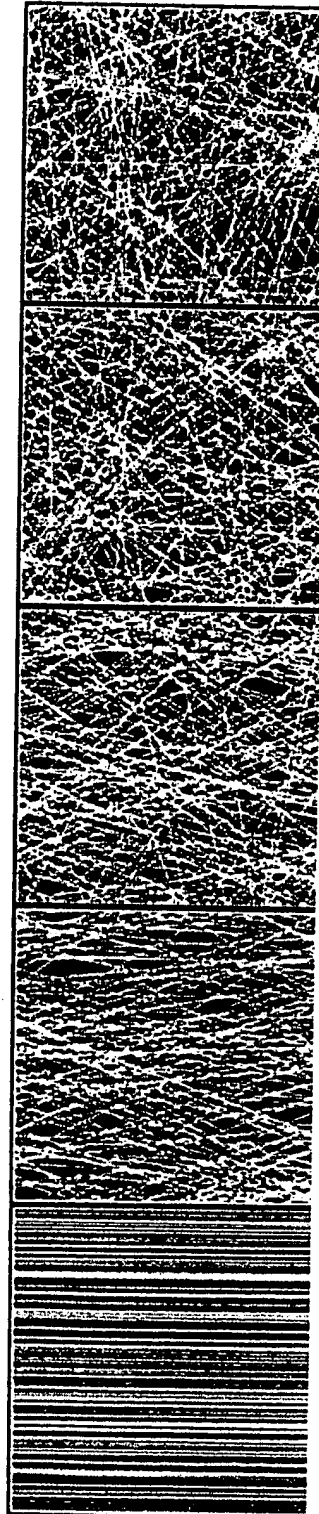
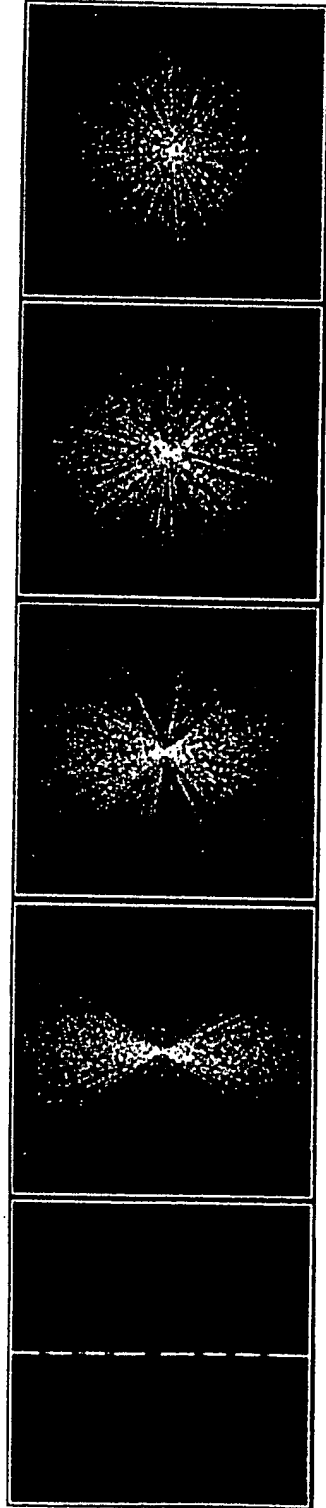


FIG. 4

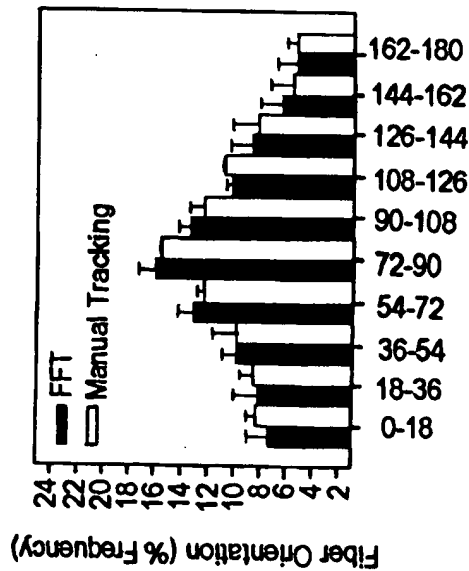
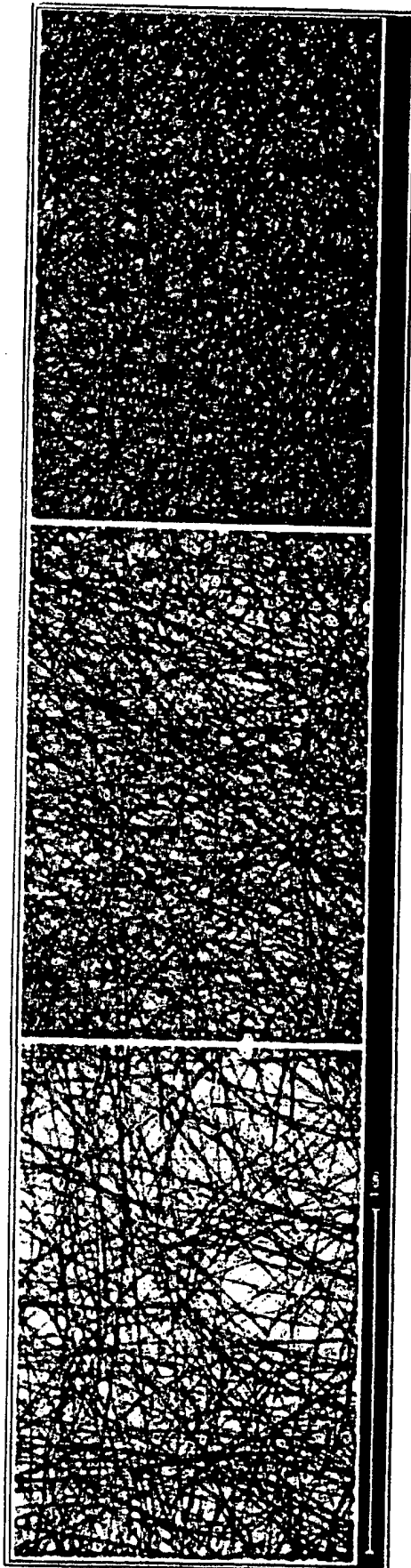


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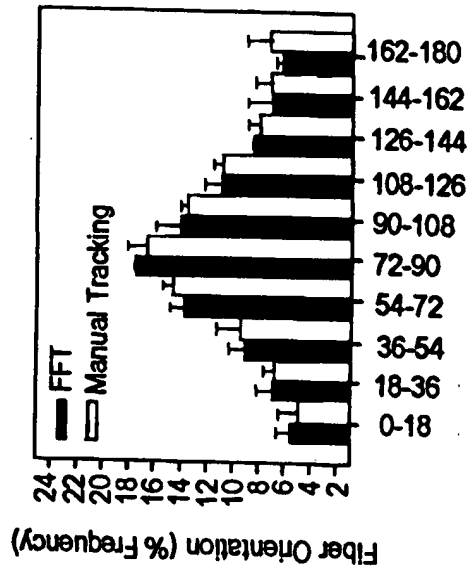


Mean	= 90	Mean	= 90	Mean	= 90	Mean	= 90	Random
Stddev	= 0	Stddev	= 15	Stddev	= 30	Stddev	= 45	

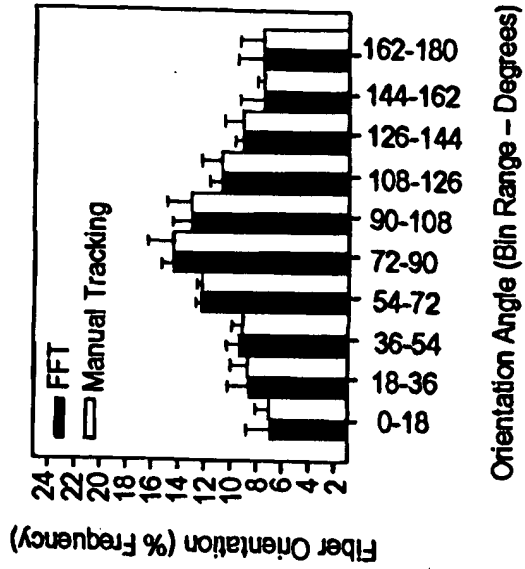
FIG. 5A FIG. 5B FIG. 5C FIG. 5D FIG. 5E



Orientation Angle (Bin Range - Degrees)



Orientation Angle (Bin Range - Degrees)



Orientation Angle (Bin Range - Degrees)

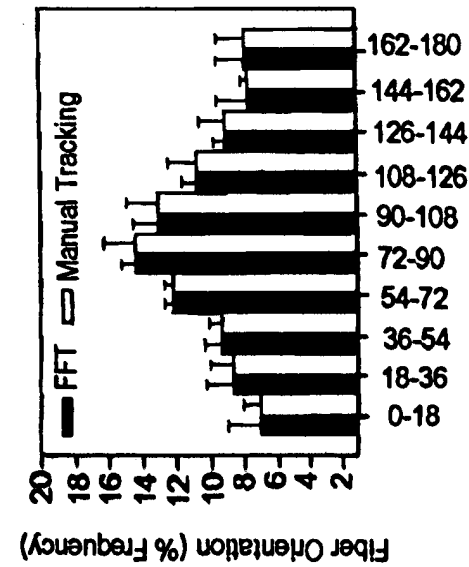
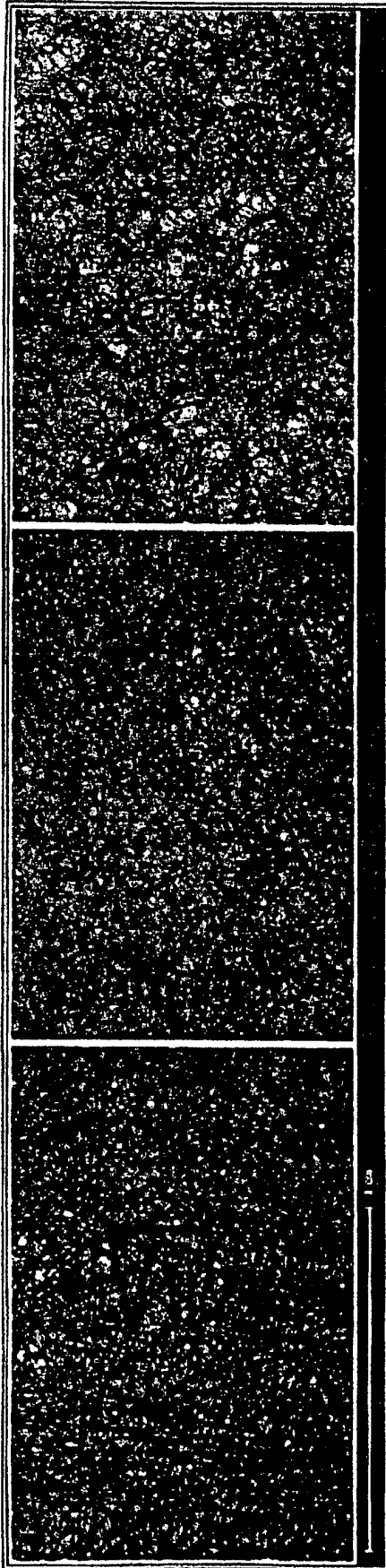


FIG. 7A

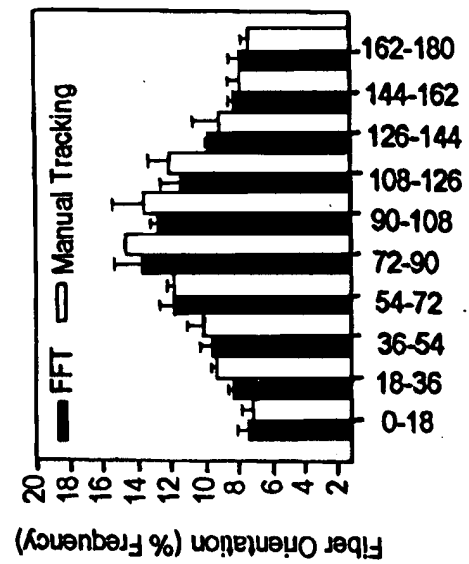


FIG. 7B

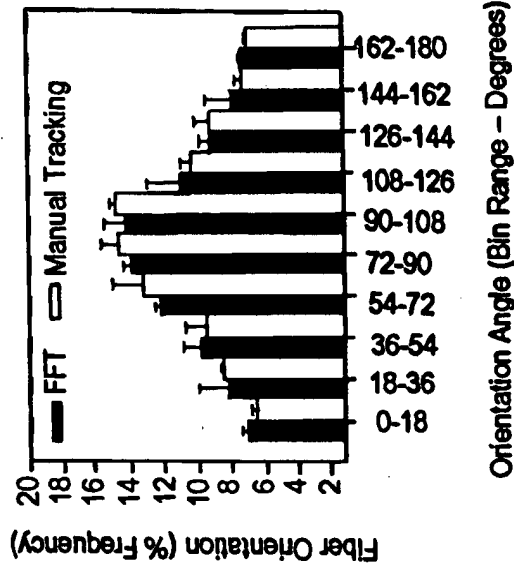


FIG. 7C

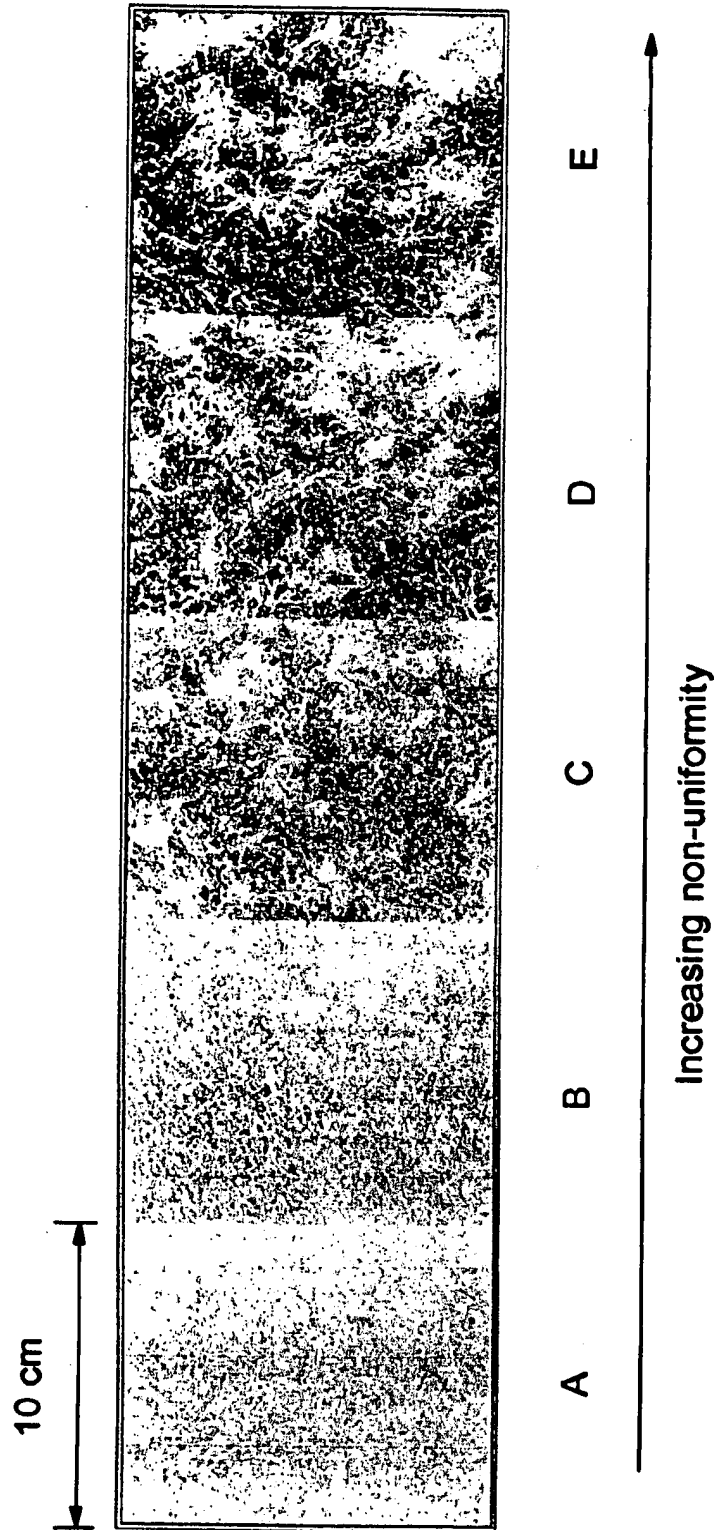


FIG. 8

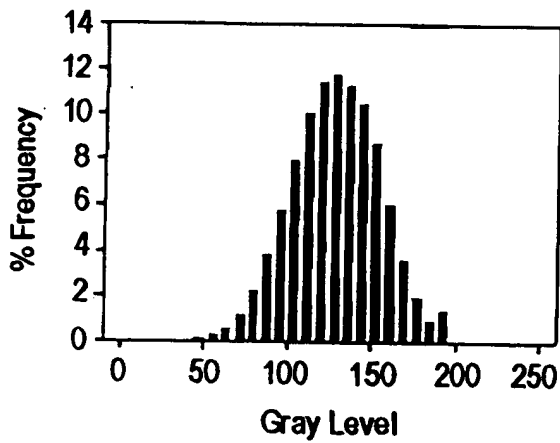


FIG. 9A

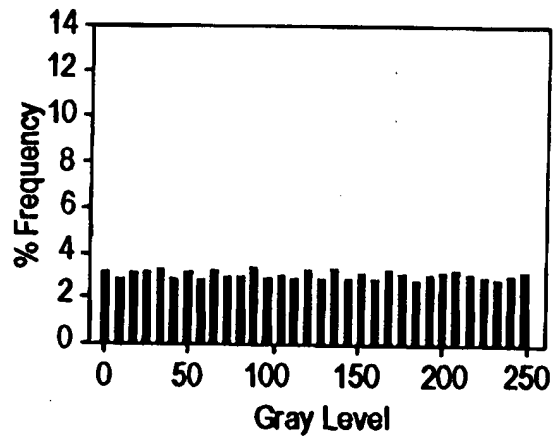
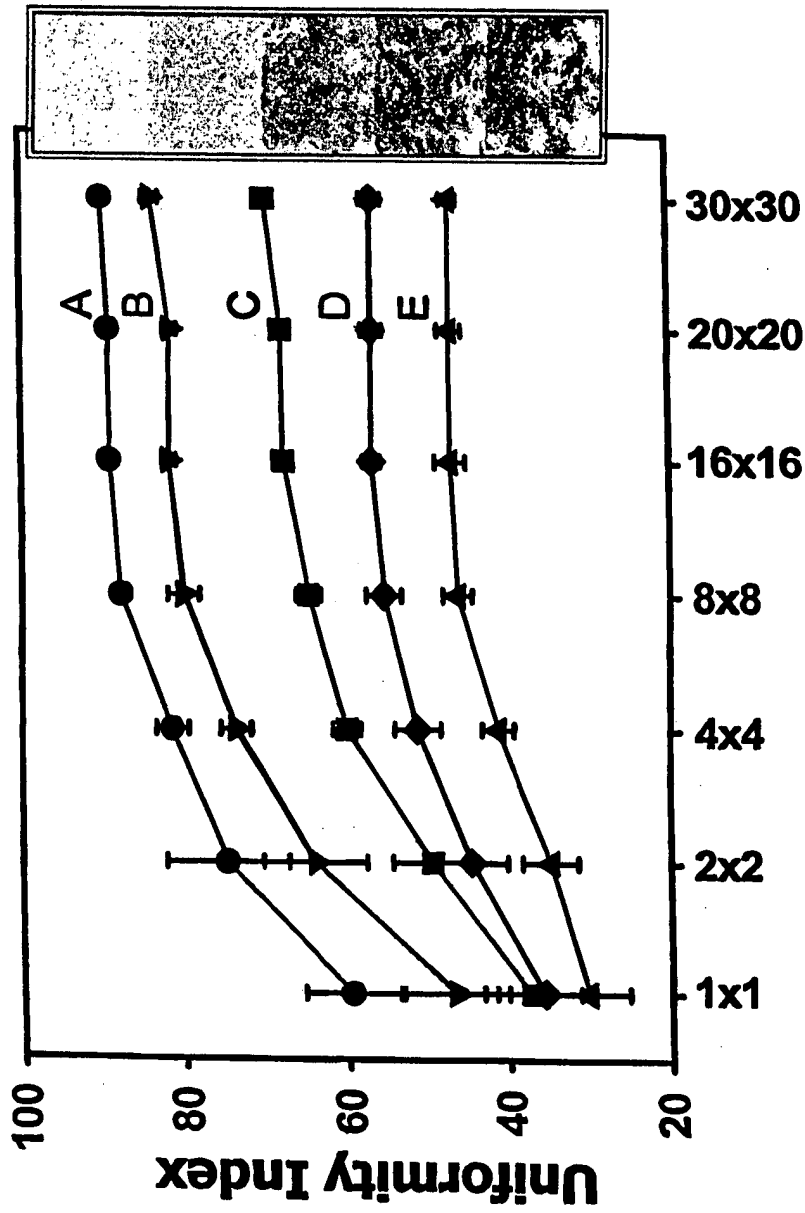


FIG. 9B



Sample Size (cm²)

FIG. 10

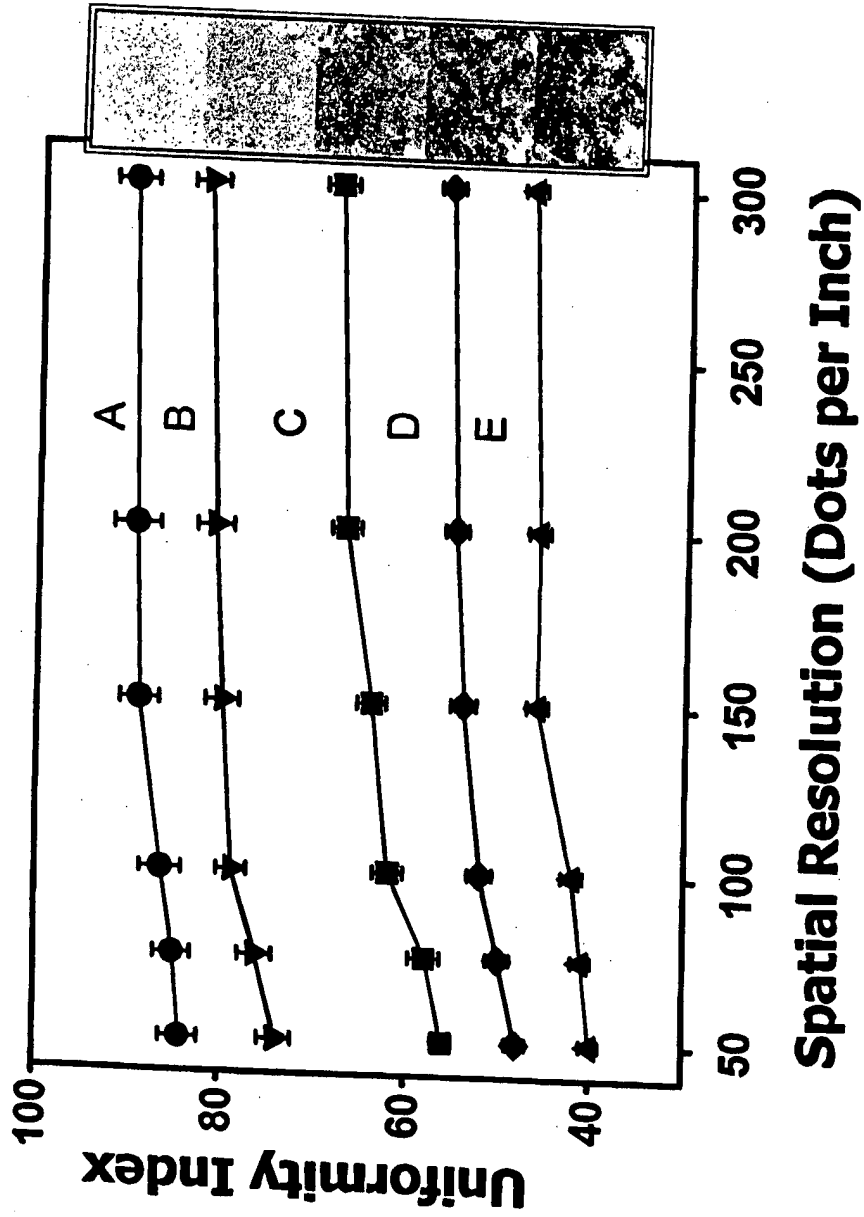


FIG. 11

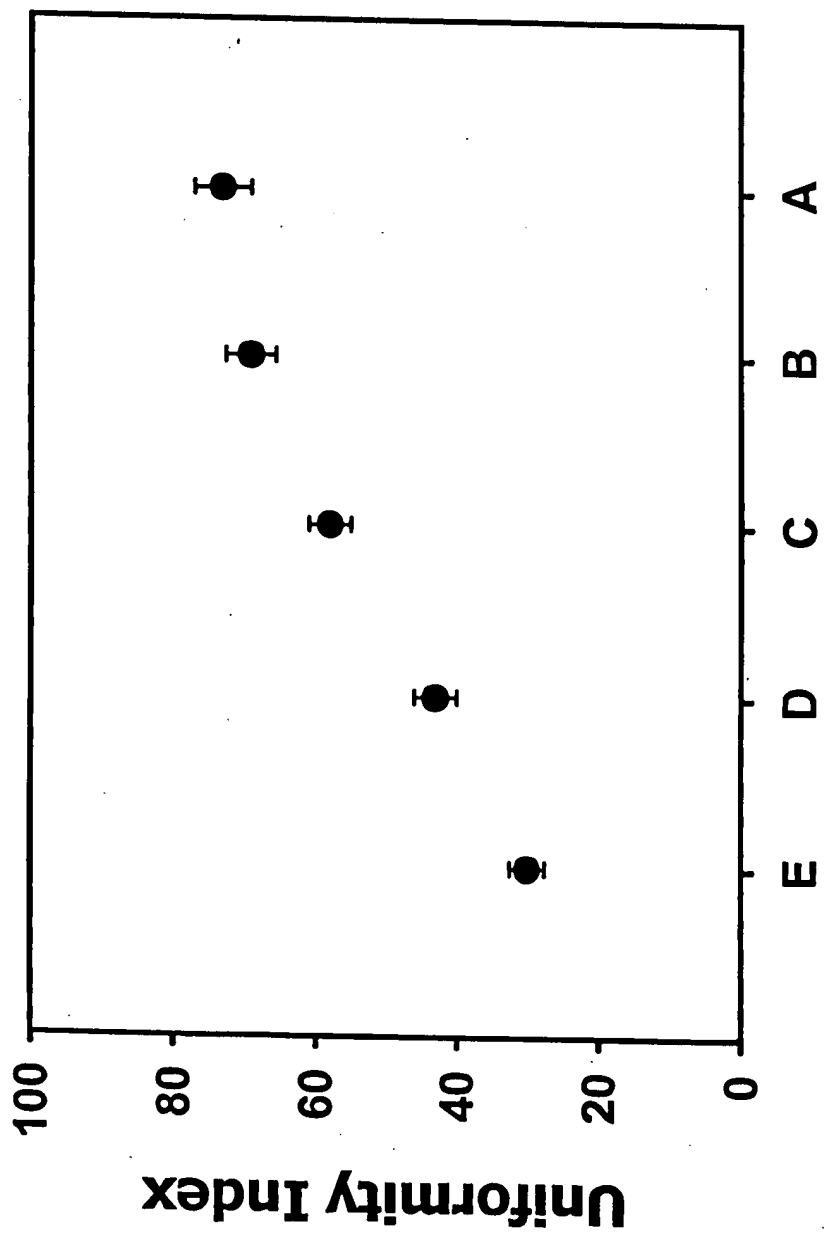


FIG. 12

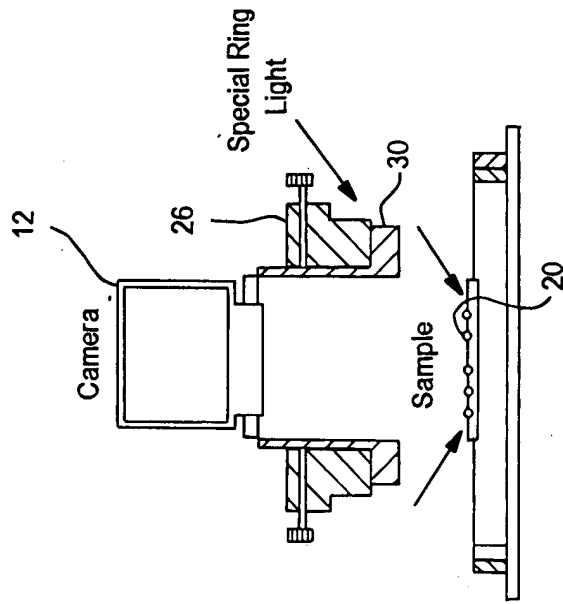


FIG. 13B

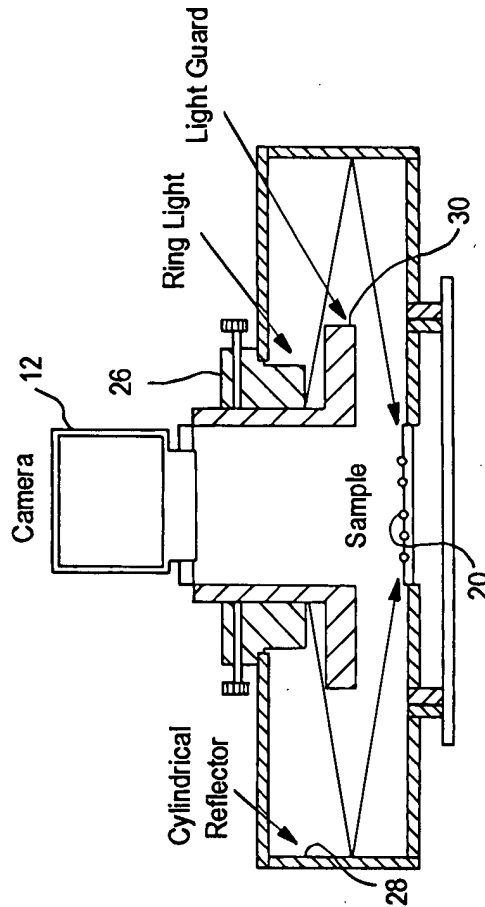


FIG. 13A

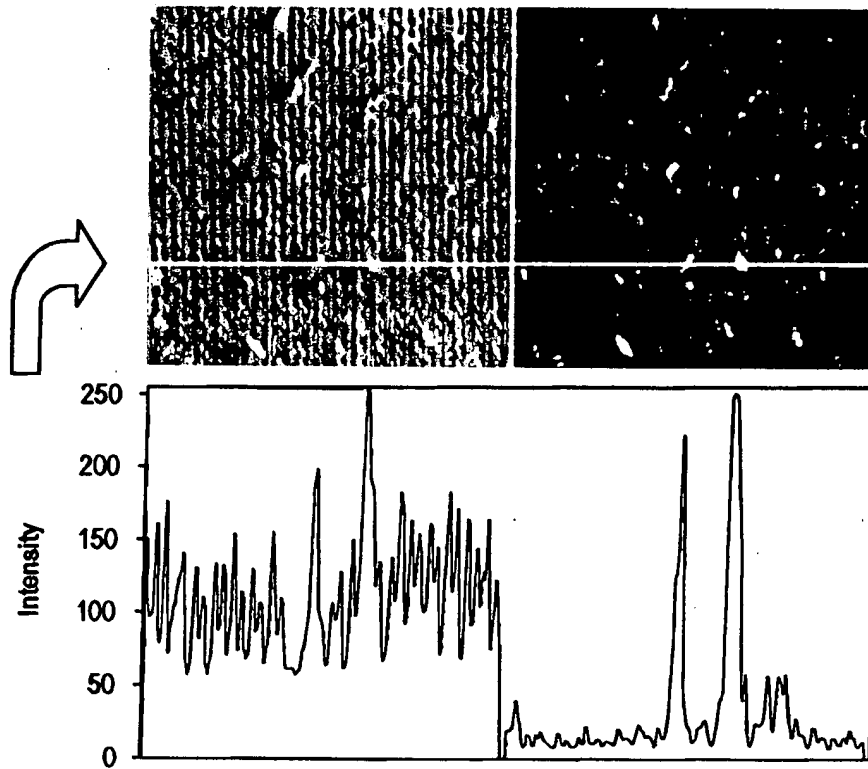


FIG. 14

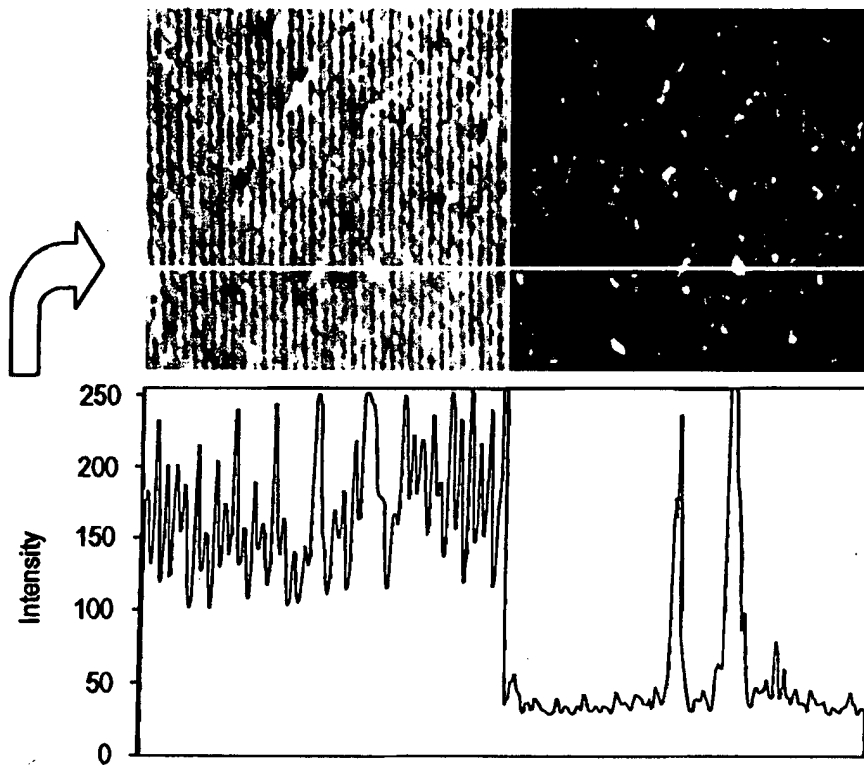
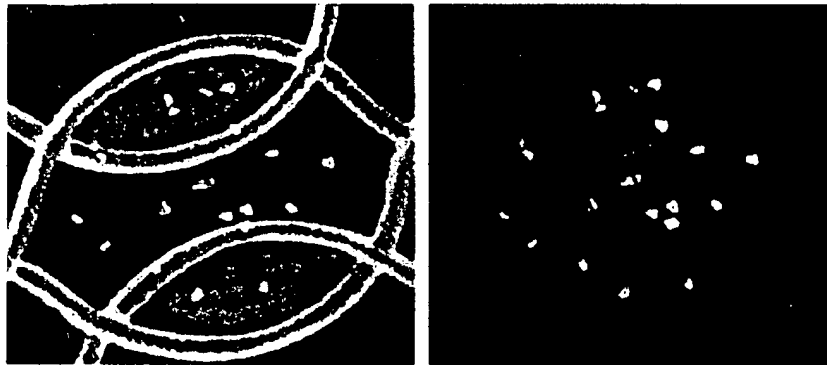


FIG. 15



Diffuse

Cylindrical

FIG. 16

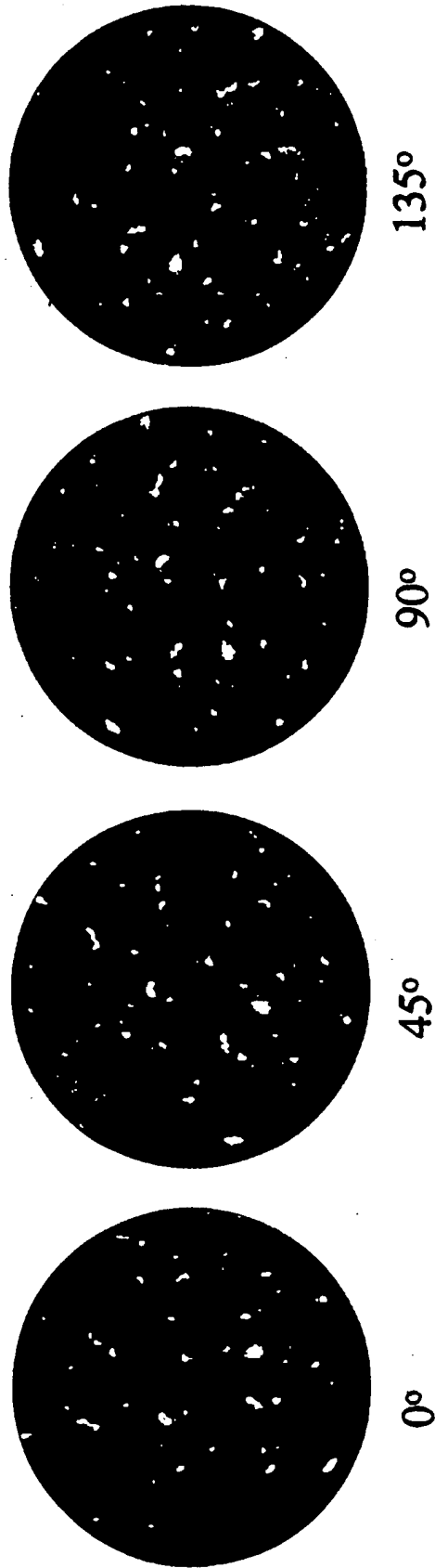


FIG. 17

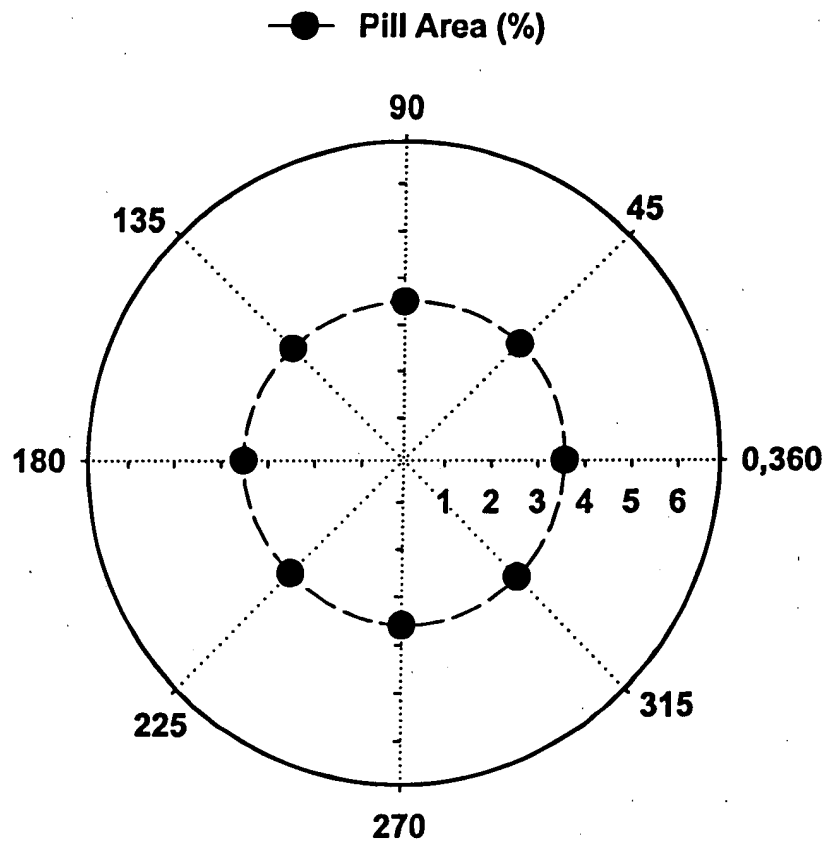


FIG. 18

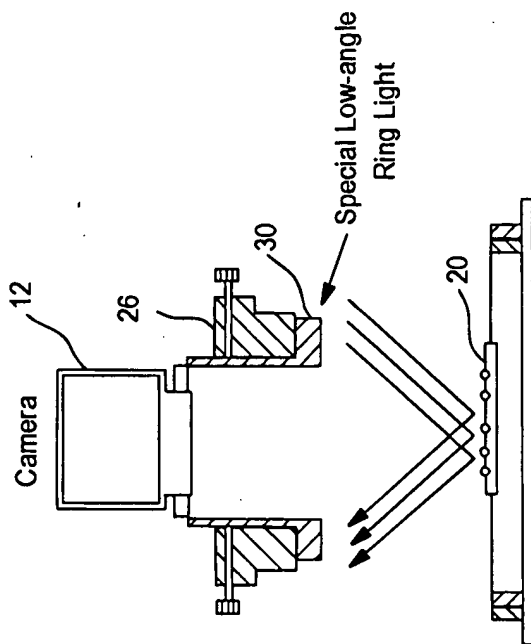


FIG. 19B

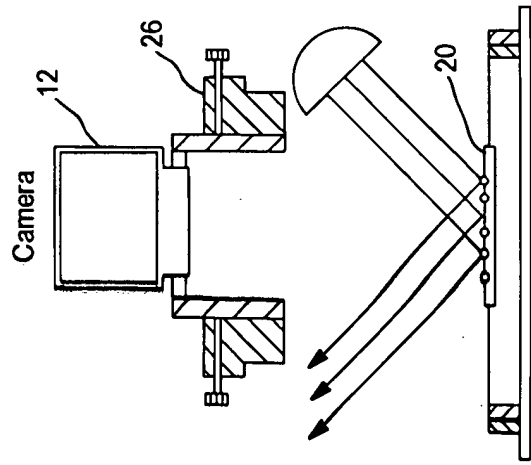


FIG. 19A

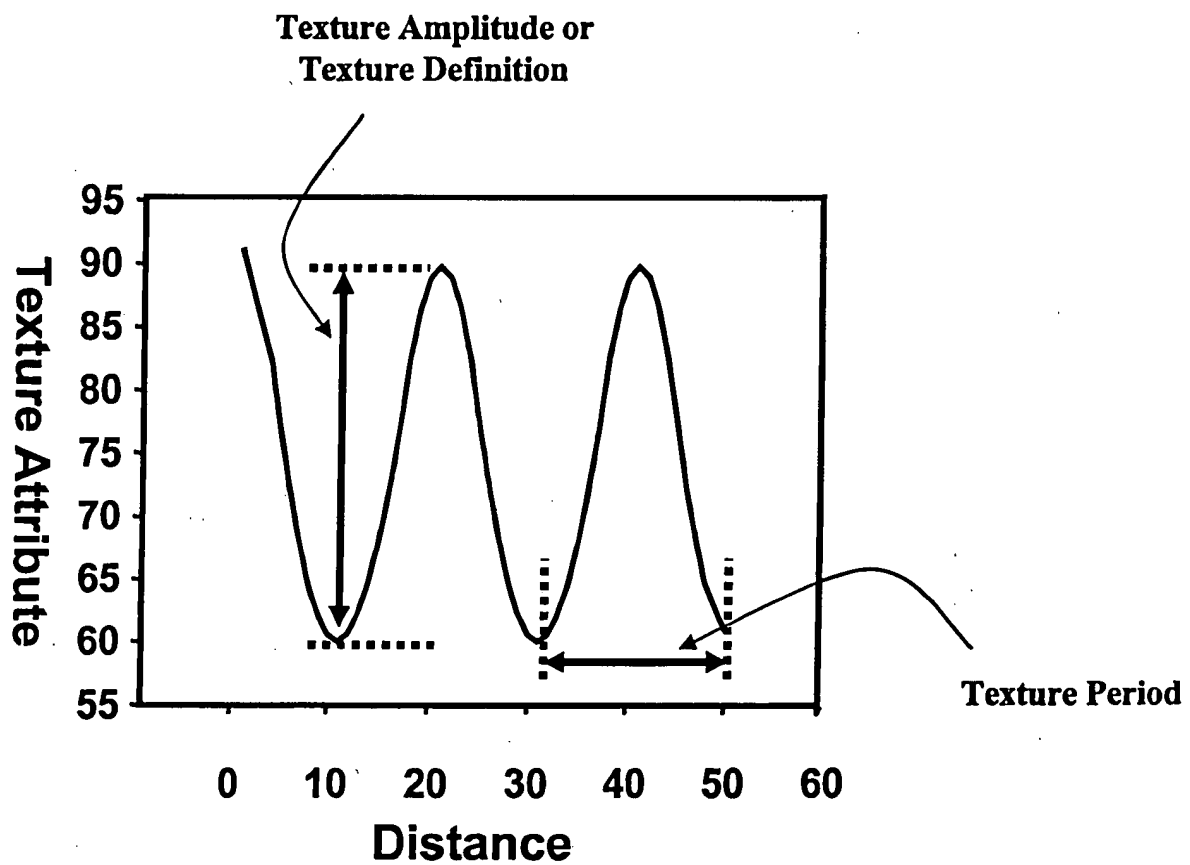


FIG. 20

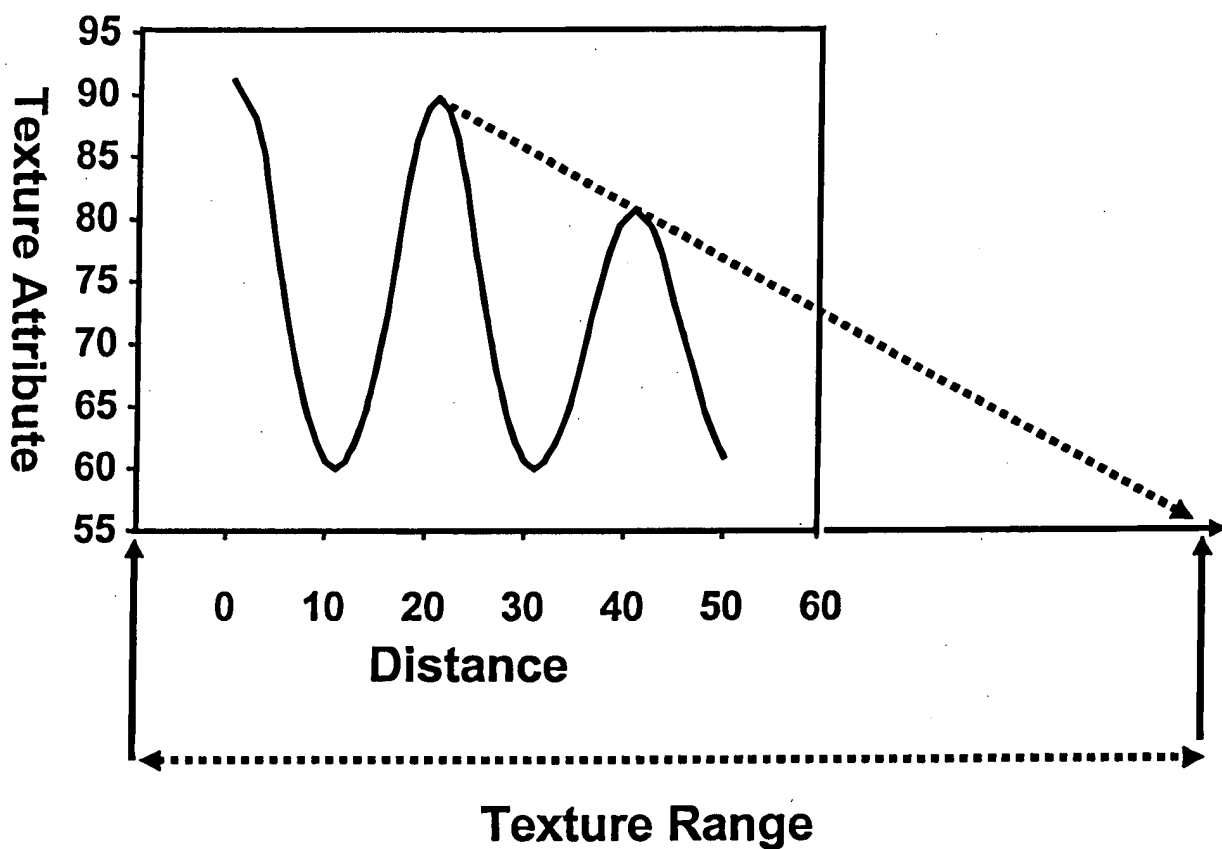


FIG. 21

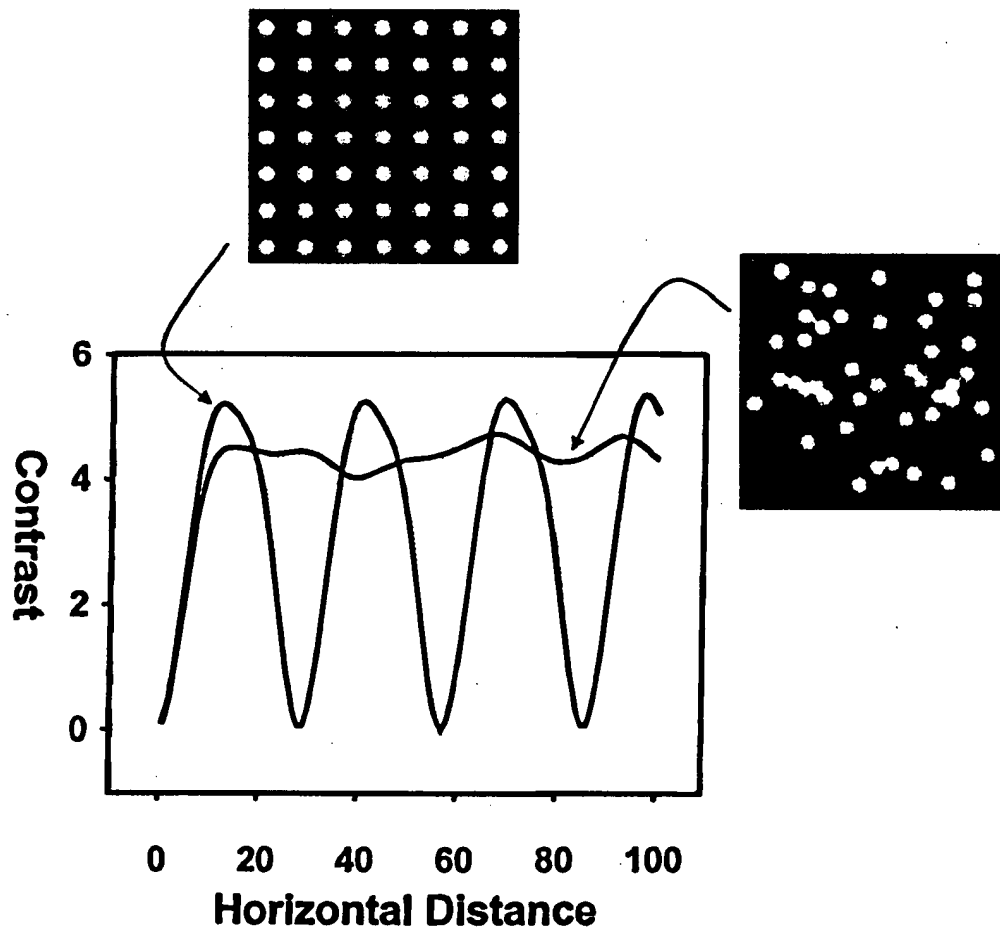


FIG. 22

$\text{Texture Period} = 2\pi / kF$
 F = Estimated Frequency
 K = Distance

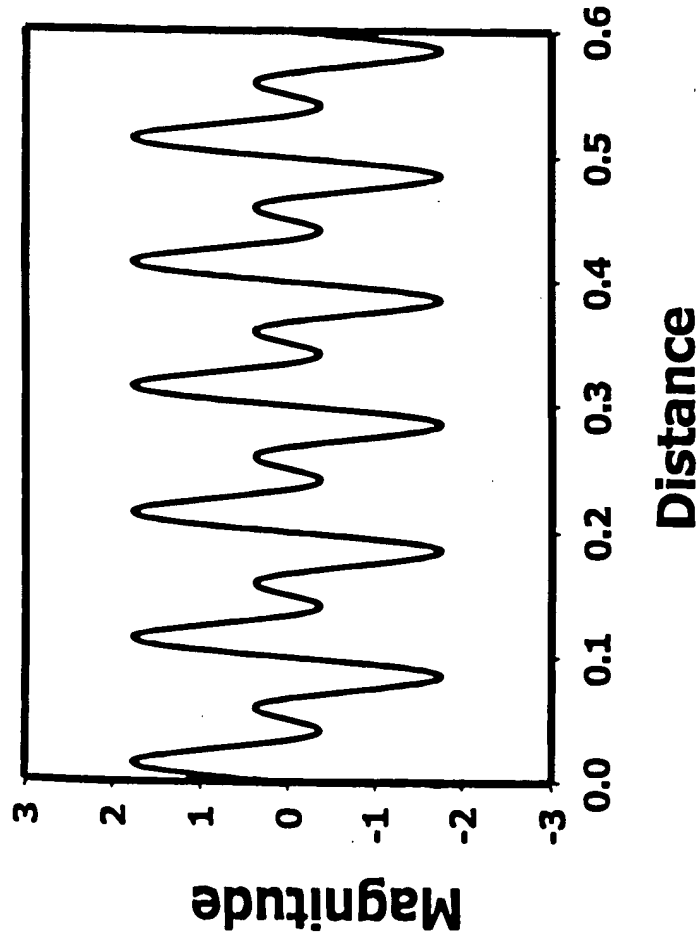


FIG. 23A

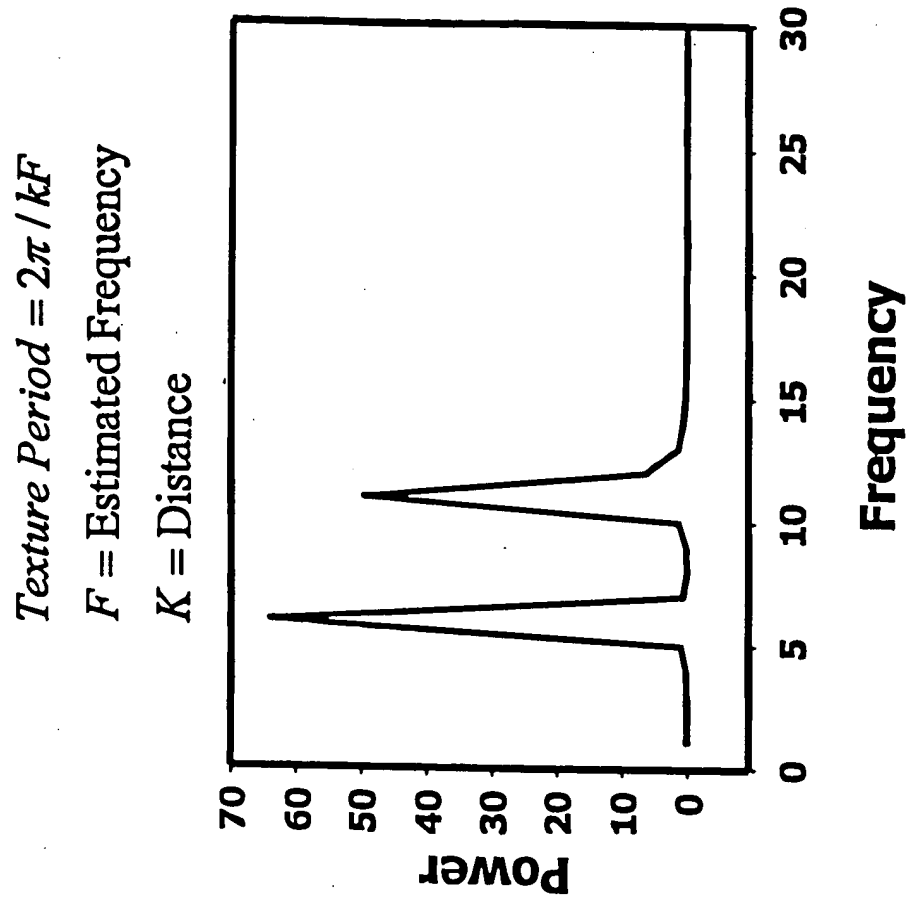


FIG. 23B

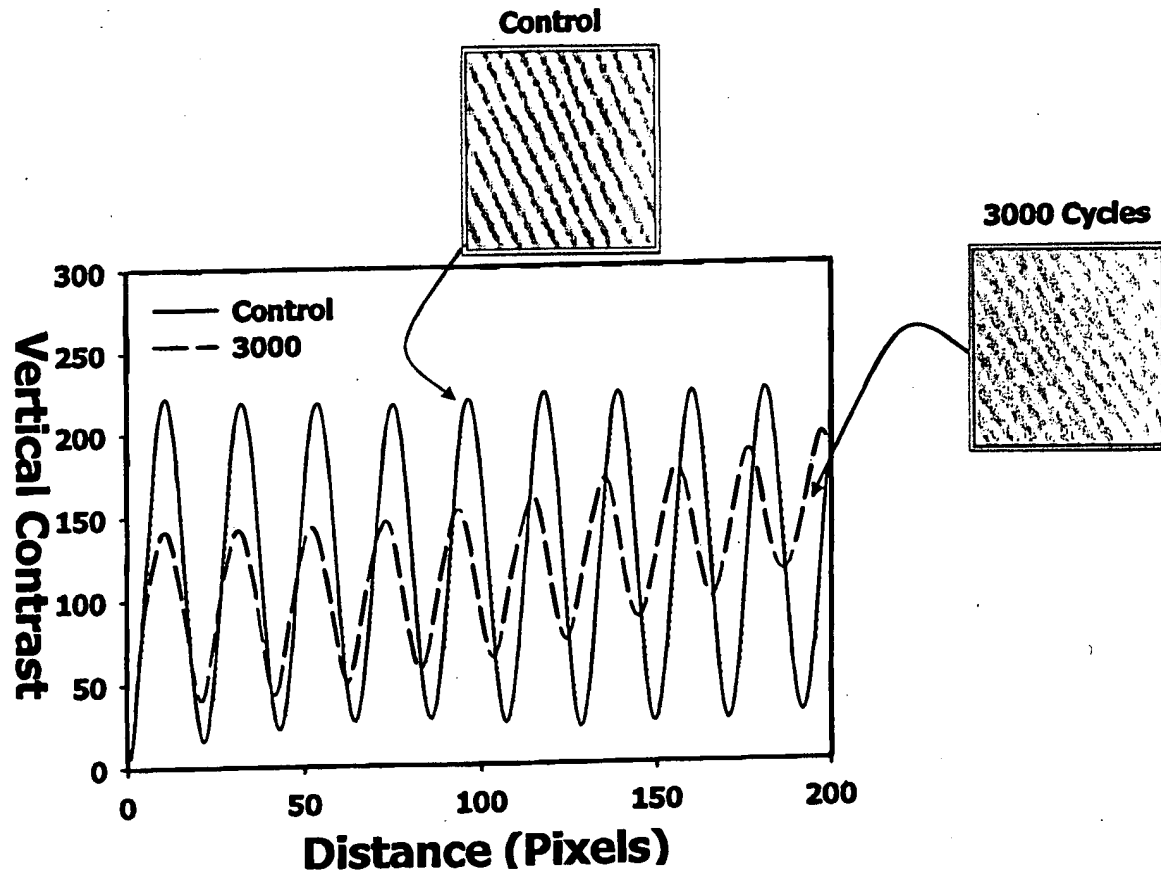


FIG. 24